==========

Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2011; month=6; day=30; hr=10; min=6; sec=26; ms=295;]

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****

Reviewer Comments:

1.

W402 Undefined organism found in <213> in SEQ ID (33)

W402 Undefined organism found in <213> in SEQ ID (34)

<210> 33

<211> 123

<212> PRT

<213> Antibody

* * * * * * * * *

<210> 34

<211> 107

<212> PRT

<213> Antibody

* * * * * * * * *

For SEQ ID # 33 and 34, numeric identifier <213> can only be one of three choices, “Scientific name, i.e. Genus/species, Unknown or Artificial Sequence.” Numeric identifier <213> may not be the name of a gene or protein. For all sequences using “Unknown” or “Artificial sequence”, for numeric identifier <213>, a mandatory feature is required to explain the source of the genetic material. The feature consists of <220>, which remains blank and, <223>, which states the source of the genetic material. To explain the source, if the sequence is put together from several organisms, please list those organisms. If the sequence is made in the laboratory, please indicate that the sequence is synthesized. Please make all necessary changes.

2.

W213 Artificial or Unknown found in <213> in SEQ ID (1)
W402 Undefined organism found in <213> in SEQ ID (2)
W213 Artificial or Unknown found in <213> in SEQ ID (3)
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W213 Artificial or Unknown found in <213> in SEQ ID (11)
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W213 Artificial or Unknown found in <213> in SEQ ID (17)
W402 Undefined organism found in <213> in SEQ ID (18)
W213 Artificial or Unknown found in <213> in SEQ ID (19)
W213 Artificial or Unknown found in <213> in SEQ ID (20)
W213 Artificial or Unknown found in <213> in SEQ ID (21)
W213 Artificial or Unknown found in <213> in SEQ ID (22)
W213 Artificial or Unknown found in <213> in SEQ ID (23) This error has occured more than 20 times, will not be displayed
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W402 Undefined organism found in <213> in SEQ ID (45)
W402 Undefined organism found in <213> in SEQ ID (46)
W402 Undefined organism found in <213> in SEQ ID (47)
W402 Undefined organism found in <213> in SEQ ID (48) This error has occured more than 20 times, will not be displayed

The warnings shown, in number 2 above, are ok and require no response.

Note:
To correct the sequence listing errors noted in this report - The recommended method for correction of errors is to access the sequence listing working file using the software program in which the listing was originally prepared, e.g., the project file in PatentIn, make any necessary corrections within that program, then generate a new sequence listing file. Use of a word processing program to correct errors directly in the original sequence listing file is strongly discouraged, since such programs often introduce unintended changes to the sequence listing, rendering the listing unacceptable. When the working file or original program is not available for correction, then use of a common or plain text-only editor, such as NotePad, to edit the original sequence listing file may suffice.
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Validated By CRFValidator v 1.0.3

Application No: 09892613 Version No: 6.0

Input Set:

Output Set:

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Finished: 2011-06-22 14:49:35.106
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 485 ms
Total Warnings: 71
Total Errors: 0
No. of SeqIDs Defined: 71
Actual SeqID Count: 71

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W 402	Undefined organism found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
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W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
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W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 402	Undefined organism found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2011-06-22 14:49:31.621
Finished: 2011-06-22 14:49:35.106
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 485 ms
Total Warnings: 71
Total Errors: 0
No. of SeqIDs Defined: 71
Actual SeqID Count: 71

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (23) This error has occured more than 20 times, will not be displayed
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W 402	Undefined organism found in <213> in SEQ ID (38)
W 402	Undefined organism found in <213> in SEQ ID (39)
W 402	Undefined organism found in <213> in SEQ ID (40)
W 402	Undefined organism found in <213> in SEQ ID (41)
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W 402	Undefined organism found in <213> in SEQ ID (46)
W 402	Undefined organism found in <213> in SEQ ID (47)
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SEQUENCE LISTING

<110> Leung, Shawn Shui-on

<120> REDUCING IMMUNOGENICITIES OF IMMUNOGLOBULINS BY FRAMEWORK-PATCHING

<130> 655

<140> 09892613
<141> 2001-06-27

<160> 71

<170> PatentIn version 3.3

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<213> Artificial Sequence

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<222> (1)..(369)

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ccgggaaagg ggctggagtg ggtcgcatac attagtagtg gtggtggtac cacctactat 180

ccagacactg tgaagggccg attcaccatc tccagagaca atgccaagaa ctccctgtac 240

ctgcaaatga acagtctgag ggtggaggac acagccttat attactgtgc aagacatagt 300

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<212> PRT
<213> Chimaera sp.

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1 5 10 15

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Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45

Ala Tyr Ile Ser Ser Gly Gly Gly Thr Thr Tyr Tyr Pro Asp Thr Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr Ala Leu Tyr Tyr Cys
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Ala Arg His Ser Gly Tyr Gly Ser Ser Tyr Gly Val Leu Phe Ala Tyr
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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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<220>
<223> N-template is a synthetic sense-strand oligonucleotide encoding amino acide 14-50 of the VH region (SEQ ID No. 2). The template is PCR-amplified by two primers (SEQ ID No. 4 and 5)

<220>
<221> V_region
<222> (1)..(111)

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cctggagggt ccctgaggct ctcctgtgca gcctctggat tctccttcag tatctatgac 60

atgtcttggg ttcgccaggc accgggaaag gggctggagt gggtcgcata c 111

<210> 4
<211> 57
<212> DNA
<213> Artificial Sequence

<220>

<223> 5' Primer is a synthetic sense-strand oligonucleotide encoding amino acid 1-19 of the VH region (SEQ ID No. 2). The 3' end of the primer overlaps with the 5'end of the template by 18 nucleotides.

<220>
<221> primer_bind
<222> (1)..(57)

<400> 4
gaagtgcagc tgctggagtc tgggggaggc ttagtgcagc ctggagggtc cctgagg 57

<210> 5
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' Primer is a synthetic anti-sense-strand oligonucleotide encoding amino acid 43-59 of the VH region(SEQ ID No. 2). The primer overlaps with the template by 21 nucleotides.

<220>
<221> primer_bind
<222> (1)..(48)

<400> 5
gtaggtggta ccaccaccac tactaatgta tgcgacccac tccagccc 48

<210> 6
<211> 132
<212> DNA
<213> Artificial Sequence

<220>
<223> C-terminal is a synthetic sense-strand oligonucleotide encoding amino acid 68-111 of the VH region (SEQ ID No 2) The template is PCR-amplified by two primers (SEQ ID No 7 and 8)

<220>
<221> V_region
<222> (1)..(132)

<400> 6
ttcaccatct ccagagacaa tgccaagaac tccctgtacc tgcaaatgaa cagtctgagg 60

gtggaggaca cagccttata ttactgtgca agacatagtg gctacggtag tagctacggg 120

gttttgtttg ct 132

<210> 7

<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' Primer is a synthetic sense-strand oligonucleotide encoding amino acid 55-74 of the VH region (SEQ ID No 2). The 3' end of the primer overlaps with the 5'end of the template by 21 nucleotides.

<220>
<221> primer_bind
<222> (1)..(60)

<400> 7
ggtggtacca cctactatcc agacactgtg aagggccgat tcaccatctc cagagacaat 60

<210> 8
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' Primer is a synthetic anti-sense-strand oligonucleotide encoding amino acid 105-123 of the VH region (SEQ ID No 2). The primer and the template overlaps by 21 nucleotides.

<220>
<221> primer_bind
<222> (1)..(57)

<400> 8
tgaagagaca gtgaccagag tcccttggcc ccagtaagca aacaaaaccc cgtagct 57

<210> 9
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> FR-patched light chaim variable region sequence formed by joining the N- and C- terminal (SEQ 11 and 14) halves at the KpeI site.

<220>
<221> V_region
<222> (1)..(321)

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attagttgca gggcaagtca ggacattagc aattatttaa actggtatca gcagaaacca 120

ggtaaggctc cgaaactcct gatctactac actagtatat tacactcagg agtcccatca 180

aggttcagtg gcagtgggtc tggaacagaa tttactctca ccattagctc cctgcagcca 240

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ggcaccaagg tggaaatcaa a 321

<210> 10
<211> 107
<212> PRT
<213> Chimaera sp.

<400> 10

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1 5 10 15

Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Asn Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Tyr Thr Ser Ile Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Trp
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 11
<211> 108
<212> DNA
<213> Artificial Sequence

<220>
<223> N-template is a synthetic sense-strand oligonucleotide encoding amino acid 11-46 of the VL region (SEQ ID No. 10). The template is PCR-amplified by two primers (SEQ ID No. 12 and 13)

<220>
<221> V_region

<222> (1)..(108)

<400> 11
ctgtctgcct ctgtgggaga cagagtcacc attagttgca gggcaagtca ggacattagc 60

aattatttaa actggtatca gcagaaacca ggtaaggctc cgaaactc 108

<210> 12
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' Primer is a synthetic sense-strand oligonucleotide encoding amino acid 1-17 of the VH region (SEQ ID No 10). The 3' end of the primer overlaps with the 5'end of the template by 21 nucleotides.

<220>
<221> primer_bind
<222> (1)..(51)

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gatatccaga tgacccagtc tccatcctcc ctgtctgcct ctgtgggaga c 51

<210> 13
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' Primer is a synthetic anti-sense-strand oligonucleotide encoding amino acid 40-53. The primer and the template overlaps by 18 nucleotides.

<220>
<221> primer_bind
<222> (1)..(40)

<400> 13
atatactagt gtagtagatc aggagtttcg gagccttacc 40

<210> 14
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> C-terminal is a synthetic sense-strand oligonucleotide encoding amino acid 59-98 of the VH region (SEQ ID No 10) The template is PCR-amplified by tow primers (SEQ ID No 15 and 16)

<220>
<221> V_region
<222> (1)..(120)

<400> 14
ccatcaaggt tcagtggcag tgggtctgga acagaattta ctctcaccat tagctccctg 60

cagccagaag attttgccac ttacttttgc caacagggta atacgcttcc gtggacgttc 120

<210> 15
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
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<220>
<221> primer_bind
<222> (1)..(49)

<400> 15
ctacactagt atattacact caggagtccc atcaaggttc agtggcagt 49

<210> 16
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' Primer is a synthetic anti-sense-strand oligonucleotide encoding amino acid 92-107 of the VH region (SEQ ID No 10). The primer and the template overlaps by 21 nucleotides.

<220>
<221> primer_bind
<222> (1)..(48)

<400> 16
tttgatttcc accttggtgc ctccaccgaa cgtccacgga agcgtatt 48

<210> 17
<211> 371
<212> DNA
<213> Artificial Sequence

<220>
<223> FR-patched heavy chaim variable region sequence (Full DNA

Sequence) formed by joining the N- and C- terminal (SEQ 19 and 22) halves at the KpeI site.

<220>
<221> V_region
<222> (1)..(371)

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tcctgcaagg cttctggcta cacatttacc agttacaata tgcactgggt acggcagcct 120

cctggaaggg gcctggaatg gattggagct atttatccag gaaatggtga tactagttac 180

aatcagaaat tcaagggcaa ggccacattg actgcagaca aatcctccag cacagcctac 240

atgcagctca gcagtctgac atctgaggac tctgcggtct attactgtgc aagatcgcac 300

tacggtagta actacgtaga ctactttgac tactggggcc aaggcaccac tgttacagtc 360

tcctctgatc a 371

<210> 18
<211> 123
<212> PRT
<213> Chimaera sp.

<400> 18

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1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Asn Met His Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile
35 40 45

Gly Ala Ile Tyr Pro Gly Asn Gly Asp Thr Ser Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser His Tyr Gly Ser Asn Tyr Val Asp Tyr Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser Asp
115 120

<210> 19
<211> 114
<212> DNA
<213> Artificial Sequence

<220>
<223> N-template is a synthetic sense-strand oligonucleotide encoding amino acide 12-49 of the VH region (SEQ ID No. 18). The template is PCR-amplified by two primers (SEQ ID No. 20 and 21)

<220>
<221> V_region
<222> (1)..(114)

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aataagcctg gggcctcagt gaaggtctcc tgcaaggctt ctggctacac atttaccagt 60

tacaatatgc actgggtacg gcagcctcct ggaaggggcc tggaatggat tgga 114

<210> 20
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' Primer is a synthetic sense-strand oligonucleotide encoding amino acid 1-19 of the VH region (SEQ ID No 18). The 3' end of the primer overlaps with the 5'end of the template by 24 nucleotides.

<220>
<221> primer_bind
<222> (1)..(57)

<400> 20
caggtgcaac tggtggcttc cggggctgag gtaaataagc ctggggcctc agtgaag 57

<210> 21
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' Primer is a synthetic anti-sense-strand oligonucleotide encoding amino acid 43-60 of the VH region (SEQ ID No 18). The primer and the template overlaps by 21 nucleotides.

<220>
<221> primer_bind
<222> (1)..(55)

<400> 21
tgtaactagt atcaccattt cctggataaa tagctccaat ccattccagg cccct 55

<210> 22
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<223> C-terminal is a synthetic sense-strand oligonucleotide encoding amino acid 70-111 of the VH region (SEQ ID No 18) The template is PCR-amplified by tow primers (SEQ ID No 23 and 24)

<220>
<221> V_region
<222> (1)..(126)

<400> 22
ttgactgcag acaaatcctc cagcacagcc tacatgcagc tcagcagtct gacatctgag 60

gactctgcgg tctattactg tgcaagatcg cactacggta gtaactacgt agactacttt 120

gactac 126

<210> 23
<211> 61
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' Primer is a synthetic sense-strand oligonucleotide encoding amino acid 57-76 of the VH region (SEQ ID No 18). The 3' end of the primer overlaps with the 5'end of the template by 21 nucleotides.

<220>
<221> primer_bind
<222> (1)..(61)

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tgatactagt tacaatcaga aattcaaggg caaggccaca ttgactgcag acaaatcctc 60

c 61

<210> 24
<211> 59
<212> DNA

<213> Artificial Sequence

<220>
<223> 3' Primer is a synthetic anti-sense-strand oligonucleotide encoding amino acid 105-123 of the VH region (SEQ ID No 18). The primer and the template overlaps by 21 nucleotides.

<220>
<221> primer_bind
<222> (1)..(59)

<400> 24
tgatcagagg agactgtaac agtggtgcct tggccccagt agtcaaagta gtctacgta 59

<210> 25
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<212> DNA
<213> Artificial Sequence

<220>
<223> FR-patched light chaim variable region sequence (Full DNA Sequence) formed by joining the N- and C- terminal (SEQ 27 and 30) halves at the BspEI site.

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<221> V_region
<222> (1)..(321)

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attacttgca gggccagctc aagtttaagt ttcatgcact ggtaccagca gaagccagga 120

tcctccccca aaccctggat ttatgccaca tccaacctgg cttccggagt ccctagtcgc 180

ttcagtggca gtgggtctgg gaccgagttc actctcacaa tcagcagttt gcagcctgaa 240

gatttcgcca cttatttctg ccatcagtgg agtagtaacc cgctcacgtt cggtgctggg 300

accaagctga ccgttctacg g 321

<210> 26
<211> 107
<212> PRT
<213> Chimaera sp.

<400> 26

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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Leu Ser Phe Met

20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Ile Tyr
35 40 45

Ala Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu
65 70 75 80

Asp Phe Ala Thr Tyr Phe Cys His Gln Trp Ser Ser Asn Pro Leu Thr
85 90 95

Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Arg
100 105

<210> 27
<211> 129
<212> DNA
<213> Artificial Sequence

<220>
<223> N-template is a synthetic sense-strand oligonucleotide encoding amino acide 9-51 of the VL region (SEQ ID No. 26). The template is PCR-amplified by two primers (SEQ ID No. 28 and 29)

<220>
<221> V_region
<222> (1)..(129)

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gccacatcc 129

<210> 28
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' Primer is a synthetic sense-strand oligonucleotide encoding amino acid 1-15 of the VH region (SEQ ID No 26). The 3' end of the primer overlaps with the 5'end of the template by 21 nucleotides.

<220>
<221> primer_bind
<222> (1)..(45)

<400> 28
gatattcaac tcacacagtc tccatcaagt ctttctgcat ctgtg 45

<210> 29
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' Primer is a synthetic anti-sense-strand oligonucleotide encoding amino acid 45-57. The primer and the template overlaps by 21 nucleotides.

<220>
<221> primer_bind
<222> (1)..(40)

<400> 29
ggactccgga agccaggttg gatgtggcat aaatccaggg 40

<210> 30
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> C-terminal is a synthetic sense-strand oligonucleotide encoding amino acid 61-100 of the VH region (SEQ ID No 26) The template is PCR-amplified by tow primers (SEQ ID No 31 and 32)

<220>
<221> V_region
<222> (1)..(120)

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